Exercise   1 *Multiply the polynomial and simplify.*

$$f(x) = (\frac{3}{5}x - \frac{4}{7})(\frac{2}{3}x + \frac{5}{6})$$

$$f(x) = \boxed{\frac{2}{5}}x^2 + \boxed{\frac{5}{42}}x + \boxed{-\frac{20}{42}}$$